Water District #34 Mitigation Itinerary May 25, 2004

Mitigation meeting held at the Mackay High School Library, at 3:00 p.m. On Tuesday May 25, 2004.

Call Meeting to Order: Seth

- 1. Mitigation Advisory Board Review
- 2. Rotation credit into storage for charging the river system Calculation Review
- 3. Review Howell Gage (750 cfs-450 cfs Rule) Dave Nelson
- 4. Depletion of storage-Futile call

GROUND WATER DELIVERED

1999	19,785 cfs
2000	43,157 cfs
2001	51,142 cfs
2002	42,942 cfs
2003	41,674 cfs

Analysis of Surface Water Rights Calling for Mitigation or Curtailment in 2004 by Mitchell Services

Owners <u>Name</u>	Right Number	Priority Date	Permitted Acres Irrg.	Rate of Diversion	Annual Volume	Comb. w/G\ Div.Rate	V Limits Volume	Actual SW	Actual GW_	Potential Mitigation	Max. Total Entitlement
Jack J.	34-00372A	1883	152 ac.	3.20cfs	532af*	4.00cfs	532af*	?	?	?	532afa*
L.V. J.	34-00372B	1883	56 ac.	1.60cfs	196af	1.60cfs	196af	?	?	?	196afa@fhd
J.V. J.	34-00690B	1883	86.5 ac.	1.73cfs	<u>303af*</u>	NA	NA	?	NA	?	<u>303afa*</u>
				6.53cfs	1031af						1031afa
Sowards	34-00666	1887	157 ac.	3.20cfs	550af*	4.10cfs	550af*	?	?	?	550af*
Sowards	34-00621B	1892	49 ac.	0.80cfs	172af*	1.22cfs	172af*	?	?	?	172af*
Sowards	34-10872	1896	120/131ac.	2.40cfs	<u>420af*</u>	3.34cfs	420af*	?	?	?	420af*
				6.40cfs	1142af						1142afa

*the annual volume (3.5) afa has been established by the director as a standard limitation (see Rule 55.02)

at the field headgate

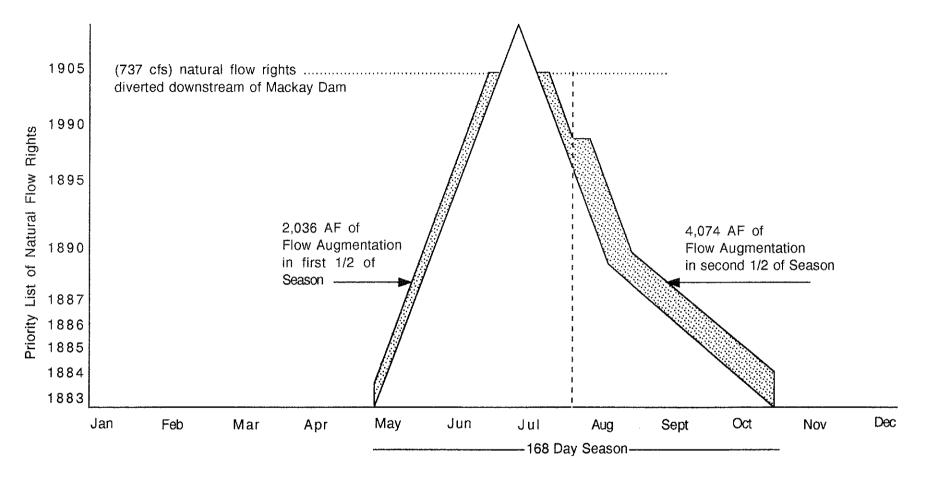
Historic Diversion Data Dates and Recent Annual Groundwater Pumpage

Low wat	er			<		-	
years	1959-60-61	1966	1977 1979	1994	1998	2000	2003
				47,000AFA	35,900 <i>A</i>	AFA 88	3,800AFA

Cause and Effect Factors that are Impacting Surface Flows

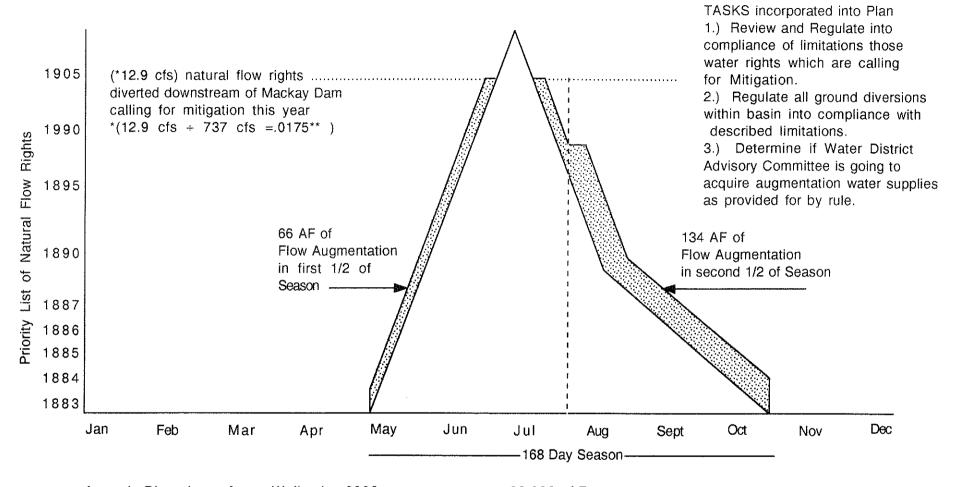
- 1.) Recent Changes in Water District and Irrigation District Accounting Procedures
- 2.) An increase in irrigated acres from approx. 60,000 acres in the mid-1960s to approx. 90,000 acres in the 1990s.
- 3.) The expansion or enlargement of surface and ground water rights.
 - a.) Non-regulation of combined rights being split and/or used in excess of combined limitations and on non-appurtenant acres.
 - b.) Non-regulation of ground water diversions used in excess of limiting rates and volumes.
- 4.) The conversion of flood/furrow irrigation to sprinkler irrigation.
- 5.) Groundwater Pumpage

W 34 20%



OR ("whichever is less")

Direct Augmentation into canal or laterals for Natural Flow Rights calling for Mitigation to the extent water supplies would have been available, absent ground water pumping.



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Direct Augmentation into canal or laterals for Natural Flow Rights calling for Mitigation to the extent water supplies would have been available, absent ground water pumping.

WATER CONVERSION FACTORS

1	cubic toot of water	7.4805 gallons	
1	cubic foot per second (CFS) .	448.83 gallons per minu	te 26,930 gallons per hour
1	cubic foot per second (CFS) .	646.315 gallons per da	y 1.9835 acre-feet per day
1	cubic foot per second for a	30 days = 59.502 acre-feet	for 1 year = 723.94 acre-feet
1	acre-foot	enough water to cov	er 1 acre of land one foot deep
			325,850 gallons
1	cubic meter per second	35.31 CFS	15,850 gallons per minute
1	million gallons		
1	million gallons a day (MGD)		1,120.147 acre-feet per year
1:	0 cents per 1,000 gallons		\$32.59 per acre-foot
1	miner's inch	9 gallons per minute	0.02 CFS

REGIONAL OFFICES OF THE IDAHO DEPARTMENT OF WATER RESOURCES
NORTHERN: 1910 Northwest Bivd., Coeur d'Alene – Tel: (208) 759-1450, FAX: 769-1454
WESTERN: 2735 Airport Way, Bolse – Tel: (208) 334-2190, FAX: 334-2348
SOUTHERN: 222 Shoshone St. E., Twin Falls – Tel: (208) 736-3033, FAX: 736-3037
EASTERN: 900 N. Skyline, Idaho Falls – Tel: (208) 252-7151, FAX: 525-7177